

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 139284-1253 - Diesel Engine

Sample No: LH0241868

Oil Type: SHELL ROTELLA T4 15W40



HUBERT & FILS

474 ROUTE 105
BOIS-FRANC, QC
CA J9E 3A9

Contact: Eric Brisebois
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SAMPLE INFORMATION

Sample Number	LH0241868	LH0239949	LH0241859	---
Sample Date	31 Oct 2023	04 Sep 2023	06 Jul 2023	---
Machine Hours	2739	2265	1668	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---



OIL CONDITION

Visc @ 100°C	cSt	13.8	13.5	13.4	---
Oxidation (PA)	%	76	75	77	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0	0	0	---
Nitration (PA)	%	75	73	72	---
Sulfation (PA)	%	63	62	63	---
Glycol	%	0.0	0.0	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	9	6	7	---
Sodium	ppm	2	4	2	---
Potassium	ppm	6	11	3	---



WEAR METALS

Iron	ppm	3	4	4	---
Copper	ppm	2	2	6	---
Lead	ppm	<1	<1	<1	---
Tin	ppm	0	<1	<1	---
Aluminum	ppm	2	1	1	---
Chromium	ppm	0	0	<1	---
Molybdenum	ppm	<1	<1	5	---
Nickel	ppm	<1	0	<1	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	<1	0	---
Manganese	ppm	0	0	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	2246	2222	1973	---
Magnesium	ppm	18	25	106	---
Zinc	ppm	1151	1156	1100	---
Phosphorus	ppm	975	957	944	---
Barium	ppm	0	<1	<1	---
Boron	ppm	105	95	94	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: HUBBOI
Unique No: 5710055
Signed: Kevin Marson
Report Date: 17 Jan 2024



GRAPHS

